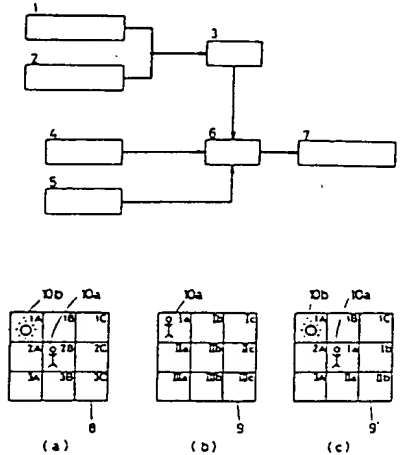


(54) DEVICE FOR PREVENTING PICTURE BLUR

(11) 3-145880 (A) (43) 21.6.1991 (19) JP
 (21) Appl. No. 64-285475 (22) 31.10.1989
 (71) MATSUSHITA ELECTRIC IND CO LTD (72) KOICHI TAKASUKA
 (51) Int. Cl. H04N5/232, H04N5/217, H04N5/335

PURPOSE: To prevent a blur of a picture attended with a blur of a camera without need of a mechanical operating mechanism by deviating the position of a picture data outputted from a solid-state image pickup element based on an output signal of a detection means in the camera or the video camera or the like so as to correct the horizontal and vertical blur of the camera.

CONSTITUTION: The quantity of a horizontal blur of the camera is detected from a horizontal angular velocity sensor 1 and its output signal is outputted to a control means 3. Similarly the quantity of a vertical blur of the camera is detected from a vertical angular velocity sensor 2 and its output signal is outputted to the control means 3. The control means 3 decides the quantity of the blur of the camera based on the output signal from the horizontal angular velocity sensor 1 and the vertical angular velocity sensor 2 and deviates the screen in response to the quantity of blur and the picture disappearing from the screen due to the blur is corrected by using the picture data stored in a picture memory 5. For example, data for 1a, 1b, 1la, 1lb are taken as outputs from the solid-state image pickup element 4 and the position is deviated in matching with the quantity of deviation and picture of 1A-1C, 2A, 3B are replaced by picture data stored in the picture memory 5 and the result of the both is synthesized.



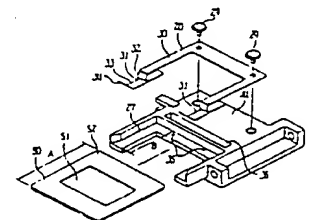
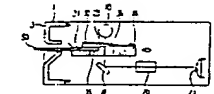
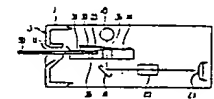
6: correction means, 7: video signal processing means

(54) IMAGE SCANNER FOR FILM

(11) 3-145881 (A) (43) 21.6.1991 (19) JP
 (21) Appl. No. 64-285214 (22) 1.11.1989
 (71) TOKYO ELECTRIC CO LTD (72) TAKURO ITO
 (51) Int. Cl. H04N5/253, G06F15/64

PURPOSE: To reduce the space in the inside of a film loading port by providing a carrier means carrying a film to the depth freely reciprocating to a base with the film loading port formed to the surface and an optical read means having an optical axis orthogonal in the carrying direction of the carrier means.

CONSTITUTION: A film loading port 4 is formed to a front face of a base 1. Thus, an external wide space is utilized to insert/withdraw a slide 50 thereby reducing the space in the inside of the film loading port 4. when the scanner is incorporated to an electronic device as the system, the scanner is arranged in a small space. Moreover, a lamp 18 and a mirror 19 are arranged opposite to each other with a carrier path of a carrier 14 inbetween. Then the size B in the depth direction of a reception part 27 of the carrier 14 is reduced more than the length A of a frame 52 of the slide 50. Thus, the moving distance of the carrier 14 and the depth of the base 1 are effectively reduced.

**(54) IMAGE SCANNER FOR FILM**

(11) 3-145882 (A) (43) 21.6.1991 (19) JP
 (21) Appl. No. 64-285215 (22) 1.11.1989
 (71) TOKYO ELECTRIC CO LTD (72) TAKURO ITO
 (51) Int. Cl. H04N5/253, G06F15/64

PURPOSE: To make the size of a scanner small and to reduce the cost by providing a light source fixed onto an optical axis orthogonal of a moving body in the carrier direction and an image sensor and setting a read start position based on an output change of an optical read means when the optical axis of the light source intersects the optical transmission window.

CONSTITUTION: A light from a lamp 18 passes through an edge of a light transmission window 36 and a light from the lamp 18 to a mirror 19 is shut just after the edge. Momentarily an output of an image sensor 21 changes from H to L and a step counter is set to 0 based on the change. Then the slide insertion is discriminated to be proper and a count of a carrier counter reaches a prescribed value, then the read of the picture of the film 51 is started. Thus, a limit switch 42 whose hysteresis characteristic is rough is used for the limit switch and the mount position is not tightly decided. Thus, the cost is reduced.

